PTO/SB/51 (05-08)

Approved for use through 08/31/2010. OMB 0651-0033
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	Docket Number (Optional)							
REISSUE APPLICATION DECLARATION BY THE INVENTOR	CMCC 450 DIV REI							
I hereby declare that: Each inventor's residence, mailing address and citizenship are stated below next to their name. I believe the inventors named below to be the original and first inventor(s) of the subject matter which is described and claimed in patent number 6,348,069, granted_February 19, 2002 and for which a reissue patent is sought on the invention entitled Engineering of Strong, Pliable Tissuse								
the specification of which	,							
is attached hereto. was filed on February 19, 2004 as reissue application num and was amended on (If applicable)	ber							
I have reviewed and understand the contents of the above-identified specific amendment referred to above. I acknowledge the duty to disclose information which is material to patentabli								
I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), equivalent) listing the foreign applications.	or 365(b). Attached is form PTO/SB/02B (or							
I verily believe the original patent to be wholly or partly Inoperative or invalid, below. (Check all boxes that apply.)	for the reasons described							
by reason of a defective specification or drawing.								
\checkmark by reason of the patentee claiming more or less than he had the right to	claim in the patent.							
by reason of other errors.								
At least one error upon which reissue is based is described below. If the reis reissue, such must be stated with an explanation as to the nature of the broad								

[Page 1 of 2]

This collection of information is required by 37 CFR 1.175. The Information is required to obtain or retain a benefit by the public which is to file (end by the USFTO to process) an application. Confiderability is govered by \$5 U.S. C. 122 and \$7 CFR 1.11 and 1.14. This collection is estimated to late in minute to complete to process and application. Confiderability is govered by \$5 U.S. C. 122 and \$7 CFR 1.11 and 1.14. This collection is estimated to take including abening, preparing, and submitting the completed application form to the USFTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form andion's suggestions for evoluting this burder, should be early to the Chief Information (F.U.S. Palent and Trademark Office, U.S. Department of Commerce, P.O. 80x 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents I.70. Box 1450, Alexandria, VA 22313-1450.

This application was filed to correct potential clarity issues by removing a second implanting step, and to encompass methods wherein the matrix was cultured in vioo as well as in an equivalent method, such as a bioreactor. The claims were also limited to heart valve constructs. Additional features have been added, where the matrix includes "struts" or "support" elements, as described in U.S. Patent No. 6,348,069, col. 5, lines 31-43, which were not previously claimed.

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(REISSUE APPLICATION	DECLARATION BY THE INVEI	NTOR, page 2	2)	CMCC 45		umber (Optional)
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Note: To appoint a power	of attorney, use form PTO/SB/8	i.				
Correspondence Address:	Direct all communications about	t the applicati	on to:			
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OR		23019				
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Joseph P. Vacanti		15.0	. ,			
Invento's signature) Hear 13	Date	2/4/	0		
Residence	- Wanton	Citizer	nship			
14 Woodside Rd., Wine Mailing Address	criester, WA 0 1090			U.S.		
14 Woodside Rd., Wind	chester, MA 01890					
Full name of second joint Christopher K. Breuer	inventor (given name, family na	me)				
Inventor's signature		Date				
Residence 58 Farm View Road, Be Mailing Address	ethany, CT 06524	Citizer	nship U.S	3.		
58 Farm View Road, Be	ethany, CT 06524					

Additional joint inventors or legal representative(s) are named on separately numbered sheets forms PTO/SB/02A or 02LR attached hereto.

PTO/SB/02A (07-07)

Approved for use through 06/30/2010, OMB 0651-0032

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| ADDITIONAL INVENTOR(S)

DECLARATION			Supplemental Sheet Page 3 of 3				
Name of Additional Joint Inventor, if any	v:	A pe	tition I	nas been filed for this un	signed	inventor	
Given Name (first and middle (if any))		Family Nar	ne or s	Surname			
Beverly E.		Chaignau					
Inventor's Signature					Date		
Birmingham Residence: City	AL. State		U.S Cou		U.S. Citizer	nship	
1036 Cahaba River Parc Birmingham, Alabama 35243 Mailing Address							
Birmingham City	AL State			35243 Zip	U.S.	ry	
Name of Additional Joint Inventor, if an	y:	A petition has been filed for this unsigned inventor					
Given Name (first and middle (if any)		Family Name or Surname					
Toshiraru	Toshiraru Shin'oka						
Inventor's Signature					Date		
Milford	Connection	cut	1	U.S.		U.S.	
Residence: City	State			Country		Citizenship	
174 Stagecoach Cir., Milford, Ct 06460 Mailing Address							
Milford	Connecticut			06460	U.S.		
City	State			Zip	Count	ry	
Name of Additional Joint Inventor, if an	y:	Аре	tition i	has been filed for this ur	nsigned	inventor	
Given Name (first and middle (if any))		Family Name or Surname					
Inventor's Signature					Date		
Residence: City	State			Country		Citizenship	
Mailing Address							
Cit.	Ciala			710	Course	te.	

City I State

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to to take 2.1 minutes to complete, including splatning, preparing, and salarhinging the completed application from the USPTO. Time will very depending upon the individual retained in the USPTO. Time will very depending upon the individual control of the USPTO. Time will very depending upon the individual control of the USPTO. Time will very depending upon the individual control of the USPTO. Time will very depending upon the individual control of the USPTO. The will very depending upon the individual control of the USPTO. The will very depending upon the individual control of the USPTO. The will very depending upon the individual control of the USPTO. The will very depending upon the individual control of the USPTO. The will very depending upon the individual control of the USPTO. The will very depending upon the individual control of the USPTO. The will very depending upon the Individual control of the USPTO. The will very depending upon the Individual control of the USPTO. The will very depending upon the Individual control of the USPTO. The will very depending upon the Individual control of the USPTO. The will very dependent upon the Individual control of the USPTO. The William Control o

PTO/SB/51 (05-08)

Approved for use through 08/31/2010, OMB 0851-0033 U.S. Patent and Trademerk Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. Docket Number (Optional) REISSUE APPLICATION DECLARATION BY THE INVENTOR CMCC 450 DIV BEL I hereby declare that: Each inventor's residence, mailing address and citizenship are stated below next to their name. I believe the inventors named below to be the original and first inventor(s) of the subject matter which is described and claimed in patent number 6.348,069 , granted February 19, 2002 and for which a reissue patent is sought on the invention entitled ______ Engineering of Strong. Pliable Tissuse the specification of which is attached hereto. was filed on February 19, 2004 10/782,750 as reissue application number and was amended on ... (If applicable) I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56. If hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b). Attached is form PTO/SB/02B (or equivalent) listing the foreign applications. I verily believe the original patent to be wholly or partly inoperative or invalid, for the reasons described below, (Check all boxes that apply.) by reason of a defective specification or drawing. by reason of the patentee claiming more or less than he had the right to claim in the patent. by reason of other errors. At least one error upon which reissue is based is described below. If the reissue is a broadening reissue, such must be stated with an explanation as to the nature of the broadening:

[Page 1 of 2]

This collection of information is required by 37 CPR 1.176. The information is 100.42 obtain or retain to benefit by the public which is to file (and by the USPT) to proceed any application. Confidentiality is genered by 58 USB. of 223 engined 1.51 and 1.14. This collection is estimated to the 30 minutes to correlate, including applienting, preparing and submitting the completed application from the USPTO. Then will vary decording southeast on the completed application from the USPTO. Then will vary decording southeast be first and or seen commission of the amount of time very energies to complete the form and/or supposed the first and or seen commission or the amount of time very energies to complete the form and/or supposed the form and/or supposed to form or the complete the second complete t

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

This application was filed to correct potential clarity issues by removing a second implanting step, and to encompass methods wherein the matrix was cultured $in\ vivo$ as well as in an equivalent method, such as a bioreactor. The claims were also limited to heart valve constructs. Additional features have been added, where the matrix includes "struts" or "support" elements, as described in U.S. Patent No. 6,348,069, col. 5, lines 31-43, which were not previously claimed.

PTO/S8/51 (05-08)

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Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number Docket Number (Optional) (REISSUE APPLICATION DECLARATION BY THE INVENTOR, page 2) CMCC 450 DIV REI All errors corrected in this reissue application arose without any deceptive intention on the part of the applicant. Note: To appoint a power of attorney, use form PTO/SB/81. Correspondence Address: Direct all communications about the application to: The address associated with Customer Number: 23579 \square OR Firm or Individual Name Address City State Country Telephone Email WARNING: Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available. I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine and imprisonment, or both, under 18 U.S.C. 1001, and that such willful false statements may leopardize the validity of the application, any patent issuing thereon, or any patent to which this declaration is directed. Full name of sole or first inventor (given name, family name) Joseph P. Vacanti Inventor's signature Citizenship 14 Woodside Rd., Winchester, MA 01890 U.S. Mailing Address 14 Woodside Rd., Winchester, MA 01890 Full name of second joint inventor (given name, family name) Christopher K. Breuer Inventor's signature Date -BULLEA Citizens 58 Farm View Road, Bethany, CT 06524 Mailing Address 58 Farm View Road, Bethany, CT 06524 Additional joint inventors or legal representative(s) are named on separately numbered sheets forms PTO/SB/02A or 02LR attached hereto,

U.S. Patent and Trademark Reduction Act of 1995, no persons are required to respond to a collection of information unless development as wall obligation and a collection of information unless a constant as wall obligation during the property unless a constant as wall obligation during the constant and the constant and the constant as well obligation during the constant and the constant and the constant as well obligation during the constant and the constant as well obligation as well as well as well obligation as well as

DECLARATION			Supplemental Sheet Page 3 of 3					
Name of Additional Joint Inventor, if ar	ıy:		A pet	lition f	has been filed for this ur	nsigned	inventor	
Given Name (first and middle (if any			Family Nam	ne or	Surname			
Beverly E,			Chalgnau					
Inventor's Signature						Date		
Birmingham Residence: City	AL State		U.S. Country			U.S. Citizenship		
1036 Cahaba River,Parc Birmingham, Alabama 35243 Malling Address								
Birmingham City	ningham AL				35243 Zip	U.S. Count	try	
Name of Additional Joint Inventor, if an	ıy:		A pet	ition l	has been filed for this ur	nsigned	inventor	
Given Name (first and middle (if any))			Family Name or Surname					
Toshiraru			Shin'oka .					
inventor's Signature						Date		
Milford Residence; City	Cor	necticu	ıt		U.S. Country		U.S. Citizenship	
174 Stagecoach Cir., Milford, Ct 06460								
Malling Address								
Milford City	Conr	necticut			06460 Zip	U.S. Count	try	
Name of Additional Joint Inventor, if an	ıy:		A pet	ition I	has been filed for this ur	nsigned	inventor	
Given Name (first and middle (if any))		Family Name or Surname					
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Inventor's Signature						Date		
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Mailing Address	·					,	***************************************	

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This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.53. The information is required to obtain or retein a benefit by the public which is to file and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 21 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will very depending upon the includes asse, Any commands on the amount of time your experts or complete this florm and greategates for the rectuloring this borders, should be sent to the Call information Officer, U.S. Petitors and Trademark Officer, U.S. Department of Commerce, P.O. Box 1490, Alexandria, VA 22313-406, DO NOT SEND FEES OR COMPLETED PORMS TO TIME ADDRESS. SEND TO Commissioner for Pattents, P.O. Box 1450, Alexandria, VA 22313-4160, DO NOT SEND FEES OR COMPLETED

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DESCRIPTION DESCRIPTION DV THE BURNING	Docket Number (Optional)				
REISSUE APPLICATION DECLARATION BY THE INVENTOR	CMCC 450 DIV REI				
Hereby declare that: Each inventor's residence, mailing address and citizenship are stated below I believe the inventors named below to be the original and first inventors (or in patent number 6_348_069 —, granted Fabruary reissue patent is sought on the invention entitledEngineering of Strong	the subject matter which is described and claimed 19, 2002 and for which a				
the specification of which					
is attached hereto.					
was filed on February 19, 2004 as reissue application num	ber				
and was amended on (If applicable)					
I have reviewed and understand the contents of the above-identified specific amendment referred to above. I acknowledge the duty to disclose information which is material to patentable					
I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), equivalent) listing the foreign applications.	or 365(b). Attached is form PTO/SB/02B (or				
I verily believe the original patent to be wholly or partly inoperative or invalid below. (Check all boxes that apply.)	for the reasons described				
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by reason of other errors.					
At least one error upon which reissue is based is described below. If the rels reissue, such must be stated with an explanation as to the nature of the broad					

[Page 1 of 2]
This collection of information is required by 57 CFR 1.175. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 38 U.S.C. (12 and 37 CFR 1.11 and 1.14. This collection is estimated to take 30 minutes to complete, including garbering, preparing, and automating the completed application form to the USPTO. This will vary depending upon the individual case. Any comments on the encount of time you require to complete this form and/or suggestions for resulting this charter, should be seen to the the filmination. USP or the encount of time to the Charter of the Charter

This application was filed to correct potential clarity issues by removing a second implanting step, and to encompass methods wherein the matrix was cultured in vivo as well as in an equivalent method, such as a bioreactor. The claims were also limited to heart valve constructs. Additional features have been added, where the matrix includes "struts" or "support" elements, as described in U.S. Patent No. 6,348,069, col. 5, lines 31-43, which were not previously claimed.

PTO/SB/51 (05-06)
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(REISSUE APPLICATION DECLARATION BY THE INVENTOR, page 2) Docket Number (Optiona CMCC 450 DIV REI								tional)	
All errors corrected in this reissue	application arose withou	ıt any deceptiv	re intentio	n on th	e part of the	applic	ant.		
Note: To appoint a power of attor	ney, use form PTO/SB/8	1.							
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Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication required evith 37 CPR 1.213(a) Is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application in a published application or an issued patent (see 37 CPR 1.14). Check and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicity available. I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this declaration is directed.									
Joseph P. Vacanti									
Inventor's signature		Date							
Residence 14 Woodside Rd., Wincheste	r. MA 01890	Citizer	ship	U.S					
Mailing Address				0.0					
14 Woodside Rd., Winchester									
Full name of second joint inventor Christopher K. Breuer	or (given name, family na	me)							
Inventor's signature		Date							
Residence 58 Farm View Road, Bethany	CT 06524	Citizer	iship U.S	 5.					
Mailing Address									
58 Farm View Road, Bethany	, CT 06524								
Additional joint inventors or legal representative(s) are named on separately numbered sheets forms PTO/SB/02A or 02LR attached hereto.									

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DECLARATION	ADDITIONAL INVENTOR(S) Supplemental Sheet Page 3 of 3						
Name of Additional Joint Inventor, if any	r: T	A petition	has been filed for this un	signed i	nventor		
Given Name (first and middle (if any))		Family Name or	Surname				
Beverly E.		Chaignaud					
Inventor's Bermy & Chain	naud	L		Febru Date	February 5, 2010		
Birmingham Residence: City	AL State	U.S. Country			U.S. Citizenship		
1036 Cahaba River Perc Birmingham, Alabama 35243 Malling Address							
Birmingham City	AL State		35243 Zip	U.S. Count	ry		
Name of Additional Joint Inventor, if any: A petition has been filed for this unsigned inventor							
Given Name (first and middle (if any)	Family Name or Surname						
Toshiraru		Shin'oka					
inventor's Signature		Date					
Milford	Connecticu	ıt	u.s.		U.S.		
Residence: City	State		Country		Citizenship		
174 Stagecoach Cir., Milford, Ct 06460 Meiling Address							
Milford	Connecticut		06460	u.s.			
City	State	***************************************	Zip	Coun	try		
Name of Additional Joint Inventor, if an	y:	A petition	n has been filed for this u	nsigned	inventor		
Given Name (first and middle (if any))	Family Name or Surname					
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Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. Docket Number (Optional) REISSUE APPLICATION DECLARATION BY THE INVENTOR CMCC 450 DIV REI I hereby declare that: Each inventor's residence, mailing address and citizenship are stated below next to their name. I believe the inventors named below to be the original and first inventor(s) of the subject matter which is described and claimed in patent number ____6,348,069 granted February 19, 2002 _ and for which a reissue patent is sought on the invention entitled ____ Engineering of Strong, Pliable Tissuse the specification of which is attached hereto. was filed on February 19, 2004 v ... as reissue application number and was amended on _ (If applicable) I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56. I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b). Attached is form PTO/SB/02B (or equivalent) listing the foreign applications. I verily believe the original patent to be wholly or partly Inoperative or invalid, for the reasons described below. (Check all boxes that apply.) by reason of a defective specification or drawing. by reason of the patentee claiming more or less than he had the right to claim in the patent. by reason of other errors. At least one error upon which reissue is based is described below. If the reissue is a broadening reissue, such must be stated with an explanation as to the nature of the broadening:

[Page 1 of 2]

This calcision of information is required by 37 CPR 1,175. The information is required to obtain or retain a benefit by the public which is to file (and by the USFTO to process) an allegation. Confidentiality is open at 0 and 0 CPR 1,176. The information is required to obtain or retain a benefit by the public which is to file (and by the USFTO to process) an allegation. Confidentiality is open at 0 and 0 CPR 1,176. The collection is estimated to take 30 minutes to complete, including patherity, preparing, and submitting the complete of the public value of the

This application was filed to correct potential clarity issues by removing a second implanting step, and to encompass methods wherein the matrix was cultured in vivo as well as in an equivalent method, such as a bioreactor. The claims were also limited to heart valve constructs. Additional features have been added, where the matrix includes "struts" or "support" elements, as described in U.S. Patent No. 6,348,069, col. 5, lines 31-43, which were not previously claimed.

P.O. Sept. 1997. Approved for use through 06312070 (065405). Quality Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it delicity as ved 2004 (control number.

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(REISSUE APPLICATION DECLARATION BY THE INVENTOR, page 2)					CMCC 45			
All errors corrected in	this reissue application arose without	any decept	ive intenti	on on the	a part of the	appli	cant.	
Note: To appoint a por	wer of attorney, use form PTO/SB/81.							
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Petitioner/applicant is	Cautioned to avoid submitting person	RNING:	: lan In dan		en			
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publicly available.								
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and belief are believe	ed to be true; and further that thes	e stateme	nts were	made v	ith the kn	helwo	ne that will	Iful falce
statements and the like	so made are punishable by fine and	imprisonm	ant or hot	h under	18 H S C	1001	and that en	ch willfu
declaration is directed.	jeopardize the validity of the applic	cation, any	patent is	suing th	nereon, or	any p	atent to w	hich this
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Additional joint inventors	or legal representative(s) are named on separate	ely numbered	sheets forms	PTO/SB/0	IZA or OZLR at	lached	hereto.	

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DECLARATION		Supplemental Sheet Page 3 of 3						
					Fas	30 01		
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			T					
Residence: City	State		_	Country		Citizenship		
Malling Address		***************************************						
City	State			Zip	Court			
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